



## Complete Summary

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### TITLE

Community-acquired pneumonia (CAP) in adults: percentage of patients with a diagnosis of CAP that had a chest x-ray to confirm diagnosis.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Community-acquired pneumonia in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2006 May. 36 p. [37 references]

## Measure Domain

### PRIMARY MEASURE DOMAIN

#### Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure is used to assess the percentage of patients with a diagnosis of community-acquired pneumonia (CAP) that had a chest x-ray to confirm diagnosis.

### RATIONALE

The priority aim addressed by this measure is to increase the appropriate use of chest x-ray to improve the accuracy of diagnosis of community-acquired pneumonia (CAP).

### PRIMARY CLINICAL COMPONENT

Community-acquired pneumonia (CAP); chest x-ray

## DENOMINATOR DESCRIPTION

Number of patients with pneumonia based on International Classification of Diseases, Ninth Revision (ICD-9) codes 481 to 487 who have not had a visit for assessment of pneumonia in the previous 30 days

## NUMERATOR DESCRIPTION

Number of patients in the denominator with a chest x-ray done

### Evidence Supporting the Measure

## EVIDENCE SUPPORTING THE CRITERION OF QUALITY

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

## NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Community-acquired pneumonia in adults.](#)

### Evidence Supporting Need for the Measure

## NEED FOR THE MEASURE

Unspecified

### State of Use of the Measure

## STATE OF USE

Current routine use

## CURRENT USE

Internal quality improvement

### Application of Measure in its Current Use

## CARE SETTING

Physician Group Practices/Clinics

## PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

## LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

TARGET POPULATION AGE

Age greater than or equal to 16 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Getting Better

IOM DOMAIN

Effectiveness

## CASE FINDING

Users of care only

## DESCRIPTION OF CASE FINDING

Patients 16 years and older

Medical groups should identify patients with a visit for assessment of pneumonia made during the target month. The eligible patients are those 16 or older who have not had a visit for pneumonia in the previous 30 days. This sample can be accomplished by a search of the medical group's own information system. A minimum of 20 cases per medical group per month is suggested. The patient medical records are reviewed to determine if a chest x-ray was done.

The suggested time period for data collection is a calendar month.

## DENOMINATOR SAMPLING FRAME

Patients associated with provider

## DENOMINATOR INCLUSIONS/EXCLUSIONS

### Inclusions

Number of patients with pneumonia based on International Classification of Diseases, Ninth Revision (ICD-9) codes 481 to 487 who have not had a visit for assessment of pneumonia in the previous 30 days

### Exclusions

Unspecified

## RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

## DENOMINATOR (INDEX) EVENT

Clinical Condition

## DENOMINATOR TIME WINDOW

Time window precedes index event

## NUMERATOR INCLUSIONS/EXCLUSIONS

### Inclusions

Number of patients in the denominator with a chest x-ray done

Exclusions  
Unspecified

#### MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

#### NUMERATOR TIME WINDOW

Encounter or point in time

#### DATA SOURCE

Administrative data  
Medical record

#### LEVEL OF DETERMINATION OF QUALITY

Individual Case

#### PRE-EXISTING INSTRUMENT USED

Unspecified

### Computation of the Measure

#### SCORING

Rate

#### INTERPRETATION OF SCORE

Better quality is associated with a higher score

#### ALLOWANCE FOR PATIENT FACTORS

Unspecified

#### STANDARD OF COMPARISON

Internal time comparison

### Evaluation of Measure Properties

#### EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

### ORIGINAL TITLE

Percentage of patients with a diagnosis of community-acquired pneumonia (CAP) that had a chest x-ray to confirm diagnosis.

### MEASURE COLLECTION

[Community-Acquired Pneumonia in Adults Measures](#)

### DEVELOPER

Institute for Clinical Systems Improvement

### ADAPTATION

Measure was not adapted from another source.

### RELEASE DATE

2005 May

### REVISION DATE

2006 May

### MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Community-acquired pneumonia in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2005 May 40 p.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Community-acquired pneumonia in adults. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2006 May. 36 p. [37 references]

### MEASURE AVAILABILITY

The individual measure, "Percentage of patients with a diagnosis of community-acquired pneumonia (CAP) that had a chest x-ray to confirm diagnosis," is published in "Health Care Guideline: Community-Acquired Pneumonia in Adults."

This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: [www.icsi.org](http://www.icsi.org); e-mail: [icsi.info@icsi.org](mailto:icsi.info@icsi.org).

## NQMC STATUS

This NQMC summary was completed by ECRI on August 1, 2005. This NQMC summary was updated by ECRI on July 17, 2006.

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